

FOCUS REPORT
New Chemicals Program

PART I: BACKGROUND

Written By: DHN

FOCUS DATE: 4/2/2007

FOCUS CHAIR: M.WigLewis

COMPANY: [REDACTED]

CASE NUMBER(S): P07-0300 through

and

PART II: SAT RESULTS

HEALTH: 1-2

ECOTOX: 1

OCCUPATIONAL
EXPOSURE: NR

CONSUMER
EXPOSURE: -

ENVIRONMENTAL
RELEASES:

Additional SAT
Information:

PART III: OTHER FACTORS

a. PRODUCTION VOLUME: [REDACTED] kg/yr

b. PROD VOL OTHER:

c. USE: [REDACTED]

d. REGULATORY HISTORY: NRC

e. TEST DATA:

f. IMPORTED ☒ MANUFACTURED ☐ BOTH ☐

g. MSDS: ☒

h. CATEGORY: Polynonionic Polymers

CATEGORY 2:



PART IV: SUMMARY OF SAT ASSESSMENT

CASE NUMBER: P07-0300

FATE: MW = [REDACTED]

POTW removal (%) = 90 via sorption
Time for complete ultimate aerobic biodeg > mo
Sorption to soils/sediments = v.strong
PBT Potential: P3B1T1

HEALTH: Absorption is nil all routes (pchem). Concern for lung toxicity if inhaled based on lung overload for [REDACTED] polymers.

ECOTOX: Predicted (P) and measured (M) toxicity values in mg/L (ppm) are:

fish 96-h LC50 = * P

daphnid 48-h LC50 = * P

green algal 96-h EC50 = * P

fish chronic value = * P

daphnid ChV = * P

algal ChV = * P

Predictions are based on SARs for polynonionic polymers; SAR chemical class = polymer-nonionic-ester; MW>[REDACTED] at 20 C (P); pH7; effective concentrations based on 100% active ingredients and nominal concentrations; hardness <150.0 mg/L as CaCO3; and TOC <2.0 mg/L;

low concern for toxicity;
assessment factor = 10.0
concern concentration = *

PART V: RAD RISK RATIONALE: HUMAN HEALTH

PART VI: SUMMARY OF EXPOSURE/RELEASE

PART VII: FOCUS DECISION AND RATIONALE

DISPOSITION: Drop

RATIONALE: P07-0300 was dropped from further review. Potential risks to human health were addressed by negligible inhalation exposures expected. Concerns for potential risks to the environment were low based on low toxicity. No CEB or EAB exposure-based criteria were met. This was a CEB D4 Drop.

PART VIII: CCD DISPOSITION / DD

CCD:

STRUCTURE ACTIVITY TEAM REPORT ver. 04/98

Case #: P-07-0300

DCN:

SAT Date: 3/27/2007

SAT Chair: L. Keifer

Submitter:

Chemical Name:

CAS RN:

Trade Name:

Structure

Molecular Formula:

Molecular Wt. 1

WT%<500:

WT%<1000:

MP:

BP:

Eq. Wt:

H2O Sol (g/L):

V.P.

Max. Prod. Volume (kg/yr):

Physical State:

USE:

Related Case Numbers

Case Role

Related Case Numl

Focus

Date: 4-2-07

Results:

Drop

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5 0 0 7 0 0 0 2 4 0 6

STRUCTURE ACTIVITY TEAM REPORT

03/27/07

CASE NUMBER: P07-0300

RELATED CASES:

CONCLUSIONS/DISCUSSIONS

TYPE OF CONCERN:	HEALTH	ECOTOX
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LEVEL OF CONCERN:	1-2	1
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KEYWORDS: LUNG OVERLOAD

SUMMARY OF ASSESSMENT

FATE: MW = [REDACTED]

[REDACTED]
[REDACTED]
[REDACTED]
[REDACTED]
[REDACTED]
(E)

POTW removal (%) = 90 via sorption

Time for complete ultimate aerobic biodeg > mo

Sorption to soils/sediments = v.strong

PBT Potential: P3B1T1

*CEB FATE: Migration to ground water = negl

HEALTH: Absorption is nil all routes (pchem). Concern for lung toxicity if inhaled based on lung overload for [REDACTED] polymers.

*CEB HEALTH: Low moderate concern (Inhalation); XB: Testing desired [INHALATION ONLY]

ECOTOX: Predicted (P) and measured (M) toxicity values in mg/L (ppm) are:

fish 96-h LC50	=	*	P
daphnid 48-h LC50	=	*	P
green algal 96-h EC50	=	*	P
fish chronic value	=	*	P
daphnid ChV	=	*	P
algal ChV	=	*	P

Predictions are based on SARs for polynonionic polymers; SAR chemical class = polymer-nonionic-ester; MW>[REDACTED]; [REDACTED]; [REDACTED] at 20 C (P); pH7; effective concentrations based on 100% active ingredients and nominal concentrations; hardness <150.0 mg/L as CaCO3; and TOC <2.0 mg/L;

low concern for toxicity;
assessment factor = 10.0
concern concentration = *
*CEB ECOTOX: No releases to water; XB: NO testing.

SAT Co-chair: Leonard Keifer 564-8916

GTOX Report

PMN No.
P-07-0300

CAS No. XXXXXXXXXX

Rcvd:
03/12/07

OECD
Incomplet

ID: Rec# 6 : 422

S/A
S Name of Analog

Reviewer
NSH

with activation

without activation

Positive Strains

Salmonella Assay:

☐☐

CHO:

☐☐

Chromosomal Aberration

CHL:

☐☐

V79:

☐☐

E. coli Reverse Mutation:

☐☐

Mouse Micronucleus Assay:

Route:

☐

Rat Hepatocytes Unscheduled DNA Synthesis:

☐

Other GTOX Results

Comments

ECOTOX:

☐

Fate:

WS/Log P:

Miscible, p. 15

NCSAB SAT REPORT

PMN:

P-07-0300

CAS RN:

Chemical Name:

Analog:

Production

Structure:

Use:

STN file CA: 14 references found, none for this use.

Formula:

Eq Wt:

Mol Weight:

MP:

BP:

VP:

H₂O Sol (g/L):

Physical State:

Log P:

Endpoint (mg/L)	Est. Value	Meas. Value	Comments
Fish 96-h	*		
Daphnid 48-h	*		
Algal 96-h	*		
Fish ChV	*		
Daphnid ChV	*		
Algal ChV	*		
BCF			

CHEMICAL CLASS:

SAR:

ECOTOX CONCERN

H

M

L

CONCERN CONCENTRATION

DATE

3/21/07

ASSESSOR: